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Altmetrics

Follow your research output in social media
and news

Michelle Schaffer & Aline Frank, University Library Bern

Coffee Lecture, 23rd November 2021



Altmetric

Measurement of research output

Citation analysis vs. altmetrics

Citation analysis

Traditional way of measuring the influence of a published article:

“How many times is a research article cited in scientific literature?”

Citation analysis = capture *academic* attention and relevance



Altmetrics (alternative metrics)

Alternative ways of tracking the attention of scientific work :

“How many times is a research article mentioned, used, saved and shared in online sources?”

Altmetrics = capture *broad* attention and relevance



Who proposes altmetrics?

Different providers

Currently different altmetrics providers

- [PLOS ALM](#) (since 2009)
- [Altmetric.com](#) (since 2011)
- [ImpactStory](#)
- [Plum Analytics](#)
- [Kudos](#)
- [CrossRef Event Data](#)
- ...

Altmetric.com

Summarizes the discussion of research in

- Blogs
- Social media (e.g. Twitter, Facebook, LinkedIn)
- Reference managers (e.g. Mendeley)
- Video services (e.g. YouTube, Vimeo)
- Other online platforms (e.g. Wikipedia, GitHub)
- News
- Policy documents
- Post-publication peer review platforms (e.g. PubPeer)
- And more

All sources of attention for Altmetric are listed here:

<https://www.altmetric.com/about-our-data/our-sources/>

Interpretation

What is the Altmetric donut telling you?

Colors

Visualize which sources are discussing the research contribution.

- Policy documents
- News
- Blogs
- Twitter
- Post-publication peer-reviews
- Facebook
- Sina Weibo
- Syllabi
- Wikipedia
- Google+
- LinkedIn
- Reddit
- Research highlight platform
- Q&A (Stack Overflow)
- Youtube
- Pinterest
- Patents

Altmetric attention score

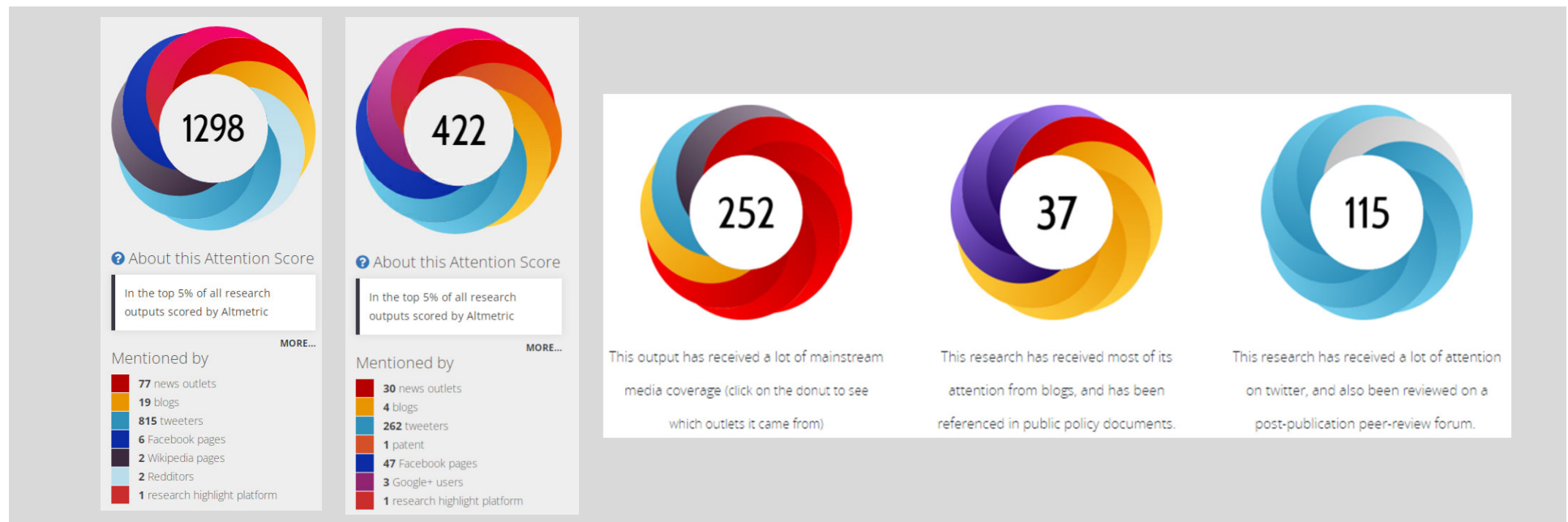
Weighted approximation of all the attention that was picked up for a research output.

17 categories



Interpretation

Examples for different Altmetric donuts



Interpretation

What's behind the colors and score?

The calculation is based on 3 factors

Volume:

How many times the contribution was mentioned by different people

Authors:

Conversation among authors about scholarly articles has a greater contribution than, e.g., automatic communications from journals.

Sources:

Each source category contributes a different base amount to the final score (newspaper article counts more than blog post counts more than a tweet)

Use of Altmetric

What are the advantages for you as scientist?

- ✓ Works at article, author and institutional level.
- ✓ Shows the early impact of research immediately.
- ✓ Allows a broader view of the dissemination of your own research.
- ✓ Helps you get credit for impact activities (increase citations).
- ✓ Useful in grant applications, funder reporting and CVs.
- ✓ Helps you find potential research partners or stakeholders by looking at who writes about your research.

Use of Altmetric

How can you actively promote your research?



→ use DOIs



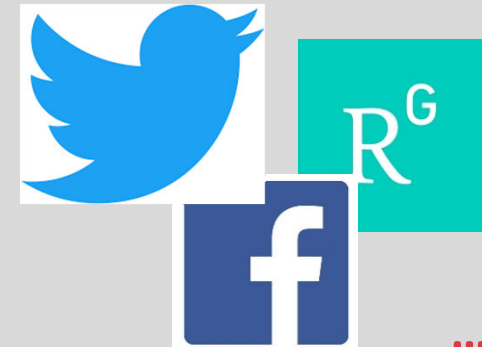
→ publish OA



→ Use and
update your
ORCID



→ report missed
mentions [here](#)



→ get the online
discussion started

Use of Altmetric

Article level metrics

Get the bookmarklet plugin for Chrome, Firefox and Safari

→ <https://www.altmetric.com/products/free-tools/bookmarklet/>

1. Add bookmarklet to your bookmarks toolbar
2. Visit any paper
3. Get article level metrics with a single click



The collage shows three journal article pages: BMC Medicine, BMJ, and Nature. Each page has an Altmetric badge overlaid, displaying various metrics such as 'Tweeted by 484', 'On 1 Facebook Pages', 'Mentioned in 22 Google+ posts', 'Reddited by 1', and 'Picked up by 1 news outlets'. The Nature article is titled 'Demonstration of temporal cloaking'.

Example 1

Use plugin to easily show article metrics

The screenshot shows the Taylor & Francis Online interface. At the top, the 'Altmetric it!' logo is highlighted with a red box. The article title is 'Pandemics, tourism and global change: a rapid assessment of COVID-19' by Stefan Gössling, Daniel Scott, and C. Michael Hall. The article has 288,635 views, 735 CrossRef citations, and 120 Altmetric mentions. An Altmetric plugin overlay is visible on the right, showing a circular chart with the number 120 and a list of metrics: 6 news outlets, 3 policy sources, 75 tweets, 1 Facebook page, and 1 Wikipedia page. The 'Click for more details' link at the bottom of the overlay is circled in red.

Metric	Count
Picked up by news outlets	6
Referenced in policy sources	3
Tweeted by	75
On Facebook pages	1
Referenced in Wikipedia pages	1

Example 1

Use plugin to easily show article metrics

The screenshot shows the Altmeter interface for an article titled "Pandemics, tourism and global change: a rapid assessment of COVID-19". The article was published in the Journal of Sustainable Tourism in April 2020. The main attention score is 120, displayed in a circular graphic. A red-bordered box highlights the "Mentioned by" section, which includes: 6 news outlets, 3 policy sources, 75 tweeters, 1 Facebook page, and 1 Wikipedia page. Below this, the "Citations" section shows 1007 Dimensions citations, and the "Readers on" section shows 3101 Mendeley readers. The interface also features tabs for "Documents", "Twitter", "Facebook", "Wikipedia", and "Dimensions citations", along with buttons for "View on publisher site" and "Alert me about new mentions".

Category	Count
Mentioned by	
News outlets	6
Policy sources	3
Tweeters	75
Facebook page	1
Wikipedia page	1
Citations	
Dimensions	1007
Readers on	
Mendeley	3101

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FAD([2]2

Ist das auch schon bereits eine Funktion von Altmetric Explorer - oder auch abrufbar ohne Lizenz?

Frank, Aline Daria (UB); 10.11.2021

Example 2

Use API to integrate metrics in publication lists

Altmetric donuts in BORIS

The burden of heat-related mortality attributable to recent

Vicedo-Cabrera, A. M.; Scovronick, N.; Sera, F.; Royé, D.; Schneider, R.; Tobias, A.; Astrom, C.; Guo, Y.; Honda, Y.; Hon Stagliorio; Saldiva, P. H. Nascimento; Lavigne, E.; Correa, P. Matus; Ortega, N. Valdes; Kan, H.; Osorio, S.; Kyselý, J.; .. recent human-induced climate change. *Nature climate change*, 11(6), S. 492-500. Nature Publishing Group [10.1038/s41558-021-01058-x](https://doi.org/10.1038/s41558-021-01058-x)

Text
VicedoCabrera_NatClimChang_2021.pdf - Veröffentlichte Version
Eingeschränkt auf registrierte Benutzer
Verfügbar unter der Lizenz Verbreitungsrecht beim Verlag.
[Download \(SMB\)](#) | [Eine Kopie anfragen](#)

Text
VicedoCabrera_NatClimChang_2021_AAM.pdf - Akzentrierte Version

Letzte Änderungen: 07 Jul. 2021 13:23


Verlag DOI: [10.1038/s41558-021-01058-x](https://doi.org/10.1038/s41558-021-01058-x)

Verwandte URLs: [Datensatz](#)

PubMed ID: 34221128


BORIS DOI: [10.48350/156585](https://doi.org/10.48350/156585)

URI: <https://boris.unibe.ch/id/eprint/156585>




Altmetric donuts in publication list at D-CHAB, ETHZ


Coherent spin dynamics of electrons and holes in CsPbBr₃ perovskite crystals
Belykh V.V., Yakovlev D.R., Glazov M.M., Grigoryev P.S., Hussain M., Rautert J., Dirin D.N., Kovalenko M.V., Bayer M.
Nature Communications, 10, 1, 673, 2019-12-01 DOI [↗](#)



Structure modulated charge transfer in carbon atomic wires
Milani A., Barbieri V., Facibeni A., Russo V., Li Bassi A., Lucotti A., Tommasini M., Tzirakis M.D., Diederich F., Casari C.S.
Scientific Reports, 9, 1, 1648, 2019-12-01 DOI [↗](#)



Photoregulated fluxional fluorophores for live-cell super-resolution microscopy with no apparent photobleaching
Halabi E.A., Pinotsi D., Rivera-Fuentes P.
Nature Communications, 10, 1, 1232, 2019-12-01 DOI [↗](#)



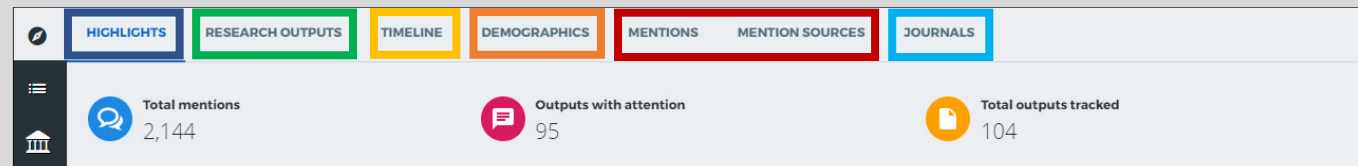
Use of Altmetric

Author and institution level metrics

Use the
**Altmetric
Explorer**

<https://www.altmetric.com/explorer>

Live Demo



- **Highlights:** What's popular and who's engaging the most with your content
- **Research output:** List of research outputs
- **Timeline:** View all mentions over time, and filter by specific attention source types
- **Demographics:** Maps of geolocations for four attention sources
- **Mentions:** All the individual mentions across all attention sources
- **Journals:** Comparison table that displays all the total mention counts for different Altmetric attention sources, aggregated by journal

Thank you
for your attention

Michelle Schaffer & Aline Frank, University Library Bern

Coffee Lecture 23rd November 2021

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→ see «Coffee & Bit(e)» for lecture notes and video (uploaded within the next days)

www.unibe.ch/ub/medresearch

